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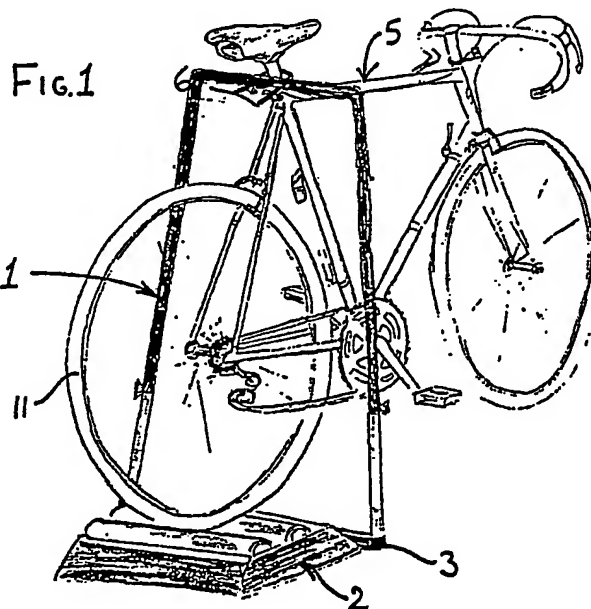
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GB 1586386 US 4415152
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(58) Field of search
A6M
B7J
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(54) Exercise bicycle stand

(57) A conversion kit that can be attached to an ordinary bicycle to convert it into a static exercise bike, and can be easily removed to allow the bicycle to be used for normal riding. The kit comprises a tubular stand (1) which is generally U-shaped, the legs of which fit on to a base bar (3) to keep the legs stable. There is also provided a wheel support base (2) with a pair of rollers on which the bicycle rear wheel can rest.

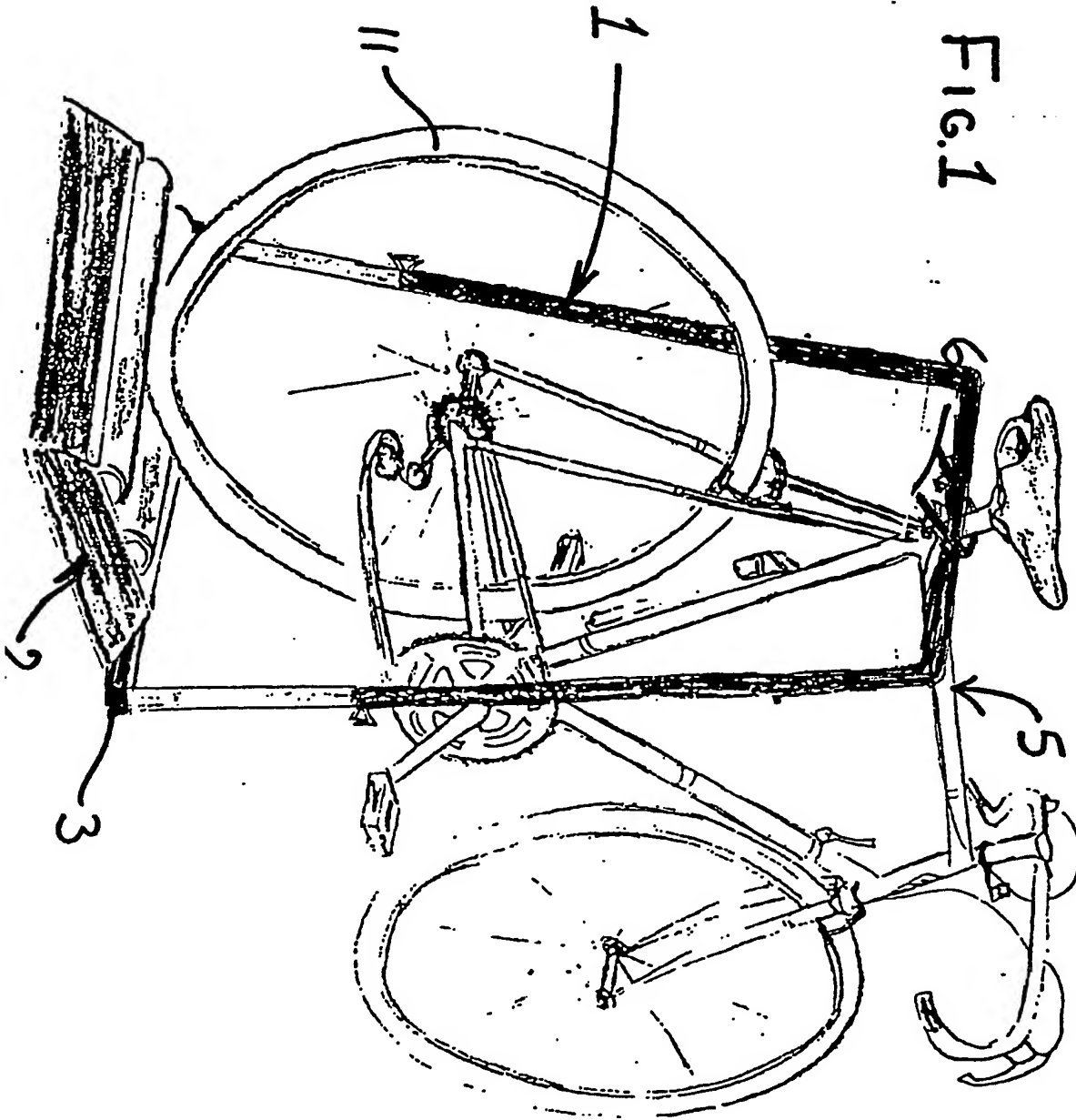


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FIG. 1



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FIG 2

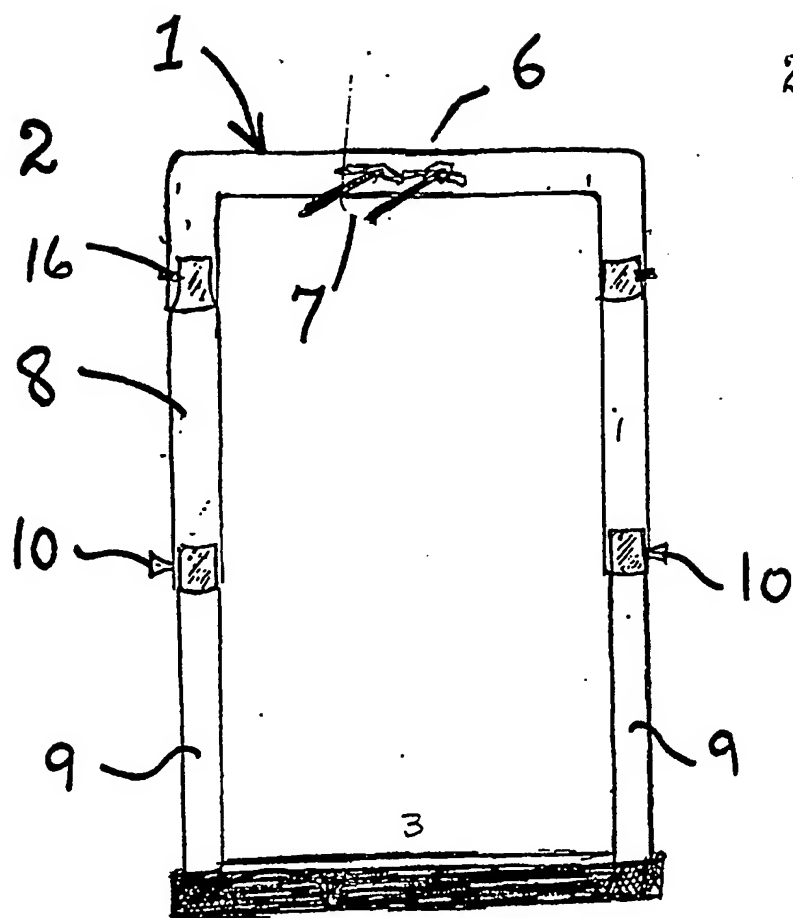
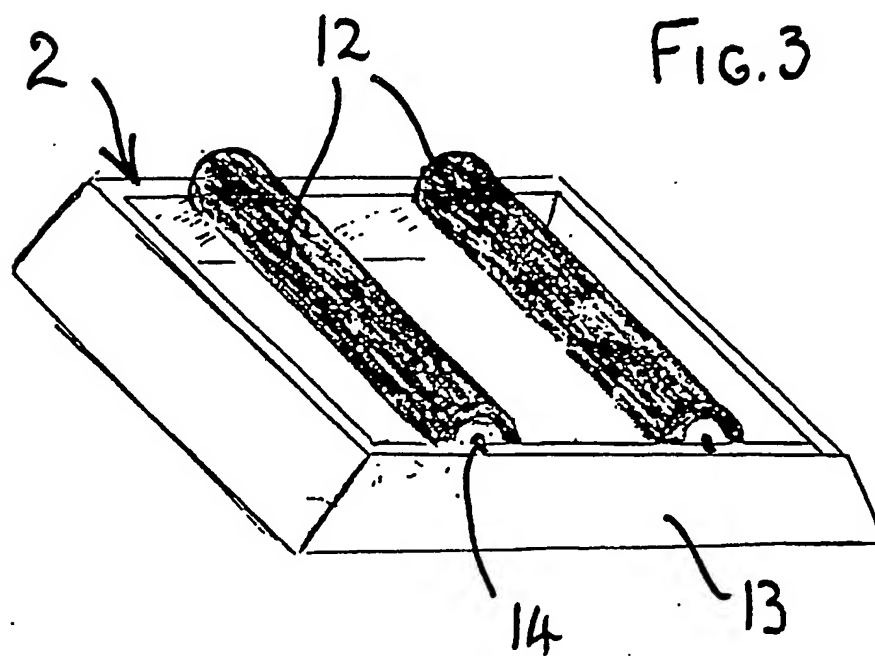


FIG. 3



SPECIFICATION

Improvements relating to exercise machines

- 5 This invention is concerned with a type of exercising machine which is operated by pedalling a form of static bicycle. There are a variety of custom-made machines of this type on the market which can be used solely for the purpose of exercising in the home or a gymnasium.

It is an object of this invention to provide means whereby a conventional bicycle may also be used as a static exercise machine.

- Accordingly this invention provides a kit for converting a bicycle to an exercising machine comprising a generally U-shaped stand whose two legs terminate in feet and fit onto a base bar which keeps the legs stable, the central portion of the U shape has holes drilled at an angle for the bracket to fit through.
- 10 The bracket being attached to the saddle stem of the bicycle, and a wheel-support base in which is mounted a pair of rollers on which the bicycle rear wheel will rest with the roller axes lying parallel to the rear wheel axis.
- 25 By using the kit a conventional bicycle can readily and speedily be converted to a static exercising machine by fixing the stand to part of the rear framework of the bicycle and so that the rear wheel of the bicycle is resting on the rollers. The stand prevents the bicycle from toppling over in use and during pedalling the rear wheel will rotate on the rollers and the bicycle will remain static. If the legs of the stand are so constructed that they are adjustable for length, then the kit may be used with a variety of sizes of bicycle. Adjustability can be achieved by making the legs of telescopic construction and providing screws in the outer portions to bear against the inner portions to secure each leg in a desired relationship.

The base part of the kit will ideally be a shallow tray-like member with the rollers mounted by bearings.

When not in use, the kit may be stored away in a relatively compact condition. If necessary the frame could be made so that it could be collapsed or broken down to a smaller size enabling the whole kit to be packed away in a storage box.

The invention may be performed in various ways and a preferred embodiment thereof will now be described with reference to the accompanying drawings, in which:-

Figure 1 is a perspective view of a bicycle to which a conversion kit of this invention has been attached;

Figure 2 is a diagrammatic illustration of a support stand of the kit, and

55 *Figure 3* shows a base part of the kit.

The conversion kit illustrated in the drawings comprises a stand 1 and a support base 2. The stand 1 is of generally U-shaped form with the free ends fitting onto a base bar which keep the legs stable 3. The central strut of the U is attached to a part 4 of the rear framework of the bicycle 5 by means of a fixing bracket 6. This bracket 6 may be attached permanently (by bolts or the like) to the saddle stem 4 of the bicycle. Half collars 7 are positioned through the stand 1 and then fixed to the bracket 6 by removable bolts or the

like. The legs 8 of the stand 1 are telescopic in nature, having lower parts 9 which slide within the main portions 8. Fixing screws 10 are tightened to secure the two parts 8 and 9 at a desired position. Thus the stand may be adjusted to suit a bicycle of any particular height. Spring clips 16 are provided to receive the lower parts 9 when removed from the legs 8 for storage.

The rear wheel 11 of the bicycle will rest upon a pair of rollers 12 mounted rotatably into the side walls of a tray portion 13 of the support base 2. The rollers house bearings at each end for smooth running.

The stand 1 can of course easily be removed from the bicycle 5 to allow the bicycle to be used for normal riding.

CLAIMS

1. A conversion kit that will fit any size bicycle and convert a cycle into a static exercise bike comprising of a stand to stabilise a cycle while exercising made of tubular metal with telescopic legs for adjustment and a base bar to keep legs stable.
2. A conversion kit as claimed 1 were a bracket 6 is provided to attach to a cycle saddle stem by means of nuts or the like and can be a permanent fixture on a cycle if required. The bracket ends 7 fit through the holes of the central section of the stand 1 and fix the stand to the cycle with wing nuts.
3. A conversion kit as claimed 1 or 2 with a plastic tray type base which houses two plastic rollers with metal shafts through each and bearing at each end for smooth running.

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